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**Complete if Known**

Application Number	09/943,781
Filing Date	August 30, 2001
First Named Inventor	Pines
Art Unit	2155 2666
Examiner Name	Alan DOONG, F
Attorney Docket Number	PA1589US

**U. S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
PD	—	US- 4,543,524	09-24-1985	Bulley	—
PD	—	US- 5,278,828	01-11-1994	Chao	—
PD	—	US- 5,636,202	06-03-1997	Garney	—
PD	—	US- 5,790,523	08-04-1998	Ritchie, Jr. et al.	—
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**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)				
PD		WO 98/47251 A2	10-22-1998	Next Level Comm.	—	
PD		EP 1 005 209 A2	05-31-2000	Westell Technologies, Inc.	—	

Examiner  
SignatureDate  
Considered

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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

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